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CLAIMS:

We claim:

 A method of characterizing a plurality of digital-to-analog converters for a plurality of color channels of a video subsystem of a computer system, the method comprising the steps of:

driving the plurality of digital-to-analog converters with a set of predetermined input digital values;

measuring a plurality of output analog voltages of the plurality of digital-toanalog converters in response to the driving step; and

storing a plurality of digital characterization values corresponding to the plurality of output analog voltages.

- The method of claim 1, wherein the set of predetermined input digital values comprises only a maximum input digital value for the plurality of digital-to-analog converters.
- The method of claim 1, wherein the plurality of digital characterization values are stored in a non-volatile memory associated with the video subsystem.
 - The method of claim 1, the storing step comprising the step of: storing a set of digital characterization values for each digital-to-analog converter of the plurality of digital-to-analog converters.
- The method of claim 4, wherein the set of digital characterization values comprises only a single digital characterization value for each digital-to-analog converter.
- 20 6. The method of claim 1, wherein the set of predetermined input digital values comprises a plurality of input digital values for each digital-to-analog converter of the plurality of digital-to-analog converters.
 - The method of claim 1, wherein the plurality of digital characterization values comprise a plurality of digital representations of the plurality of analog output voltages.

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- 8. The method of claim 1, wherein the plurality of digital characterization values comprise a plurality of digital values corresponding to a mathematical model for the plurality of analog output voltages.
- The method of claim 1, wherein the measuring step is performed with a
 precision termination load resistor.
 - 10. The method of claim 1, wherein the plurality of digital characterization values represents a plurality of transfer functions for the plurality of digital-to-analog converters.

11. A computer system, comprising:

- a processor; and
- a video subsystem coupled to the processor, the video subsystem comprising:
- a plurality of digital-to-analog converters for a plurality of color channels of the video subsystem;
- a video connector coupled to the plurality of digital-to-analog converters for connection to a monitor; and
- a non-volatile memory storing a plurality of digital characterization values for the plurality of digital-to-analog converters.
- 12. The computer system of claim 11, wherein the plurality of digital characterization values represent a plurality of transfer functions for the plurality of digitalto-analog converters.
- 13. The computer system of claim 11, wherein the plurality of digital characterization values comprise a plurality of digital representations for a plurality of analog output voltages measured for the plurality of digital-to-analog converters by driving the plurality of digital-to-analog converters with a set of predetermined input digital values.
- 14. The computer system of claim 11, wherein the plurality of digital 25 characterization values comprises only a single digital characterization value for each digital-to-analog converter of the plurality of digital-to-analog converters.
 - 15. The computer system of claim 11, further comprising:

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color management software executable by the processor to perform color correction based on the plurality of digital characterization values.

- 16. A video subsystem for a computer system, comprising:
- a plurality of digital-to-analog converters for a plurality of color channels for the video subsystem; and
- a non-volatile memory storing a plurality of digital characterization values for the plurality of digital-to-analog converters.
- 17. The video subsystem of claim 16, wherein the plurality of digital characterization values comprise a plurality of digital representations for a plurality of analog output voltages measured for the plurality of digital-to-analog converters by driving the plurality of digital-to-analog converters with a set of predetermined input digital values.
- 18. The video subsystem of claim 16, wherein the plurality of digital characterization values comprises only a single digital characterization value for each digital-to-analog converter of the plurality of digital-to-analog converters.
- 19. The video subsystem of claim 16, wherein the plurality of digital characterization values represent a plurality of transfer functions for the plurality of digital-to-analog converters.
- 20. A method of characterizing a plurality of color channels of a video subsystem of a computer system, the method comprising the steps of:
 - driving the plurality of color channels with a set of predetermined input digital values:
 - measuring a plurality of output analog signals of the plurality of color channels in response to the driving step; and
 - storing a plurality of digital characterization values corresponding to the plurality of output analog signals.
- The method of claim 20, wherein the plurality of digital characterization values are stored in a non-volatile memory associated with the video subsystem.

22. The method of claim 20, wherein the video system comprises a graphics controller.